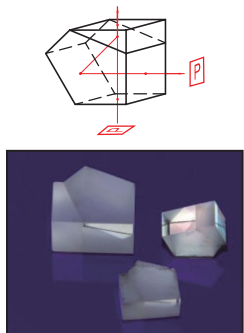


Beamsplitter Penta Prism

Beamsplitter penta prism is combined with a penta prism and a wedge cemented on one reflective surface, a beamsplitter coating on the cemented interface to form a beamsplitter. Now the transmission/reflection (T/R) ratio of beamsplitter penta prism we provided include 50/50, 20/80 and etc. Other T/R ratio is available upon request.

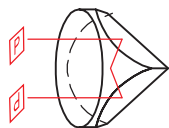
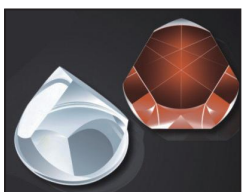


Specifications:

Material: BK7 grade A optical glass
 Dimension (h) Tolerance: $\pm 0.1\text{mm}$
 Surface Quality: 60-40 S/D, up to 20-10S/D
 90° Deviation : < 30 arc sec., up to 5 arc sec. Refer to the table
 180° Deviation : < 10 arc sec., up to 5 arc sec. Refer to the table
 Flatness: $\lambda/2$ @632.8nm(Stadard), up to $\lambda/4$ @632.8nm
 Reflectivity: R>95% per face @630-680nm
 Protective Bevel: $< 0.25\text{mm} \times 45^\circ$
 Beamsplitter Ratio Transmission/Reflection:T/R 20/80 ± 5 @630-680nm

Corner Cube Retroreflector

It has three mutually perpendicular surfaces and a hypotenuse face. Light entering through the hypotenuse is reflected by each of the three surfaces in turn and will emerge through the hypotenuse face parallel to the entering beam regardless of the orientation of the incident beam., it is often used for distance measurement, optical signal process and laser interferometer.



Specifications:

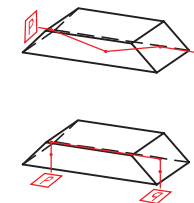
Material: BK7,Fused Silica
 Dimension Tolerance: $+0.0/-0.2\text{mm}$
 Surface Quality:60-40 S/D ,up to 20-10S/D
 Deviation :180° ± 3 arc secs
 Flatness: $\lambda/8$ @632.8nm ,up to $\lambda/10$ @632.8nm
 Wavefront: $\lambda/2$ @632.8nm

Standard Corner Cube Retroreflectors

Size (mm)	10 sec. deviation	5sec. deviation	2sec. deviation
ϕ (mm)	Part No.	Part No.	Part No.
12.7	CNP-127-10	CNP-127-05	CNP-127-02
25.4	CNP-254-10	CNP-254-05	CNP-254-02
38.1	CNP-381-10	CNP-381-05	CNP-381-02
50.8	CNP-508-10	CNP-508-05	CNP-508-02

Dove Prism

Dove prism has two applications. The main application is used as a rotator. It can rotate an image but without deviating the beam. And when the prism is rotated about the input parallel ray through some angle, the image rotates through twice that angle. It is very important that the application must be used with parallel or collimated beam and the large square reflective surface should be kept very clean. Another application is used as a retroreflector. For this application it performs as a right-angle prism.

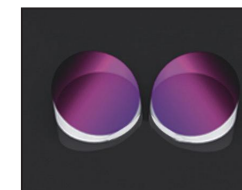
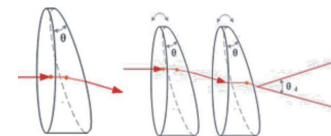


Specifications:

Material: BK7 ,SF11 or others
 Dimension Tolerance: $+0.0/-0.1\text{mm}$
 Clear Aperture: $> 85\%$
 Surface Quality:60-40 S/D , up to 20-10S/D
 Angle Tolerance:3 arc mins,up to 30 arc sec
 Flatness: $\lambda/2$ @632.8nm,up to $\lambda/10$ @632.8nm

Wedge prism

Wedge prism has plane inclined surfaces. It deflects light toward its thicker portion. It can be used individually to deflect a beam to a special angle. Two wedge prisms work together can assembly an anamorphic prism to correct the elliptical shape of laser beam. The wedge prism is ideal for laser beam steering applications. By combining two wedge prisms which can be rotate individually, we can direct the input beam to anywhere within the cone angle θd , where θd is 4x the specified angular deviation of one wedge. We can make deviation angle from 1deg to 10deg. Other angle can be realized upon request.

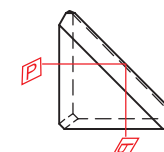


Specifications:

Material: BK7,SF11 or others
 Dimension Tolerance: $+0.0/-0.1\text{mm}$
 Thickness Tolerance: $\pm 0.1\text{mm}$
 Clear Aperture: $> 85\%$
 Surface Quality:60-40 S/D , up to 20-10S/D
 Flatness: $\lambda/4$ @830nm ,up to $\lambda/10$ @632.8nm
 Wedge Tolerance:1 arc min ,up to 30 arc sec

Roof Prisms (Amici Prisms)

Roof prism is combined with a right angle prism and a totally internally reflecting roof and they are attached by them largest square surfaces. It can invert and reverse an image, also, deflect the image 90°. Therefore, it is often used in terrestrial telescopes, viewing systems and rangefinders.



Specifications:

Material: BK7 grade A optical glass
 Dimension Tolerance: $+0.0/-0.1\text{mm}$
 Clear Aperture: $> 85\%$
 Surface Quality:60-40 S/D , up to 20-10S/D
 Angle Tolerance: 3 arc mins
 Roof Angle Tolerance:10 arc secs, up to 30 arc sec
 Flatness: $\lambda/2$ @632.8nm,up to $\lambda/10$ @632.8nm